

EP 675941

WPI Acc No: 1994-218780/199427

Biodegradable textile conditioner concentrate with stable low viscosity
contg quat ammonium cpds of triethanol-amine with fatty acyloxy-ethyl gps

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Number of Countries: 009 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4243701	A1	19940630	DE 4243701	A	19921223	199427
B						
WO 9414935	A1	19940707	WO 93EP3525	A	19931214	199428
EP 675941	A1	19951011	WO 93EP3525	A	19931214	199545
			EP 94903767	A	19931214	
EP 675941	B1	19960828	WO 93EP3525	A	19931214	199639
			EP 94903767	A	19931214	
DE 59303601	G	19961002	DE 503601	A	19931214	199645
			WO 93EP3525	A	19931214	
			EP 94903767	A	19931214	
ES 2091130	T3	19961016	EP 94903767	A	19931214	199647

Priority Applications (No Type Date): DE 4243701 A 19921223

Cited Patents: DE 1619058; DE 1935499; DE 3612479; EP 370675; EP 498050;
WO

9321291; WO 9402676

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 4243701	A1		4	D06M-013/463	

WO 9414935 A1 G 9 C11D-001/62
EP 675941 A1 G C11D-001/62 Based on patent WO 9414935
EP 675941 B1 G 5 C11D-001/62 Based on patent WO 9414935
Designated States (Regional): AT BE CH DE ES FR IT LI NL
DE 59303601 G C11D-001/62 Based on patent EP 675941
Based on patent WO 9414935
ES 2091130 T3 C11D-001/62 Based on patent EP 675941

Abstract (Basic): DE 4243701 A

In a conc. textile conditioner dispersion (I) contg. quat. ammonium cpds. (II) derived from triethanolamine and contg. 1, 2 or 3 fatty acyloxyethyl (ADE) gps., the fraction of cpds. (IIA) contg. 2 AOE gps. is over 50 mole-% of the total.

(I) contains over 15, pref. over 30 (wt.)% (II) and has a viscosity of under 1000, pref. under 500 mPa.s at 20 deg.C.

ADVANTAGE - (I) has low viscosity, which does not increase or hardly increases even after prolonged storage. (I) are readily and completely biodegradable and easily diluted, even with cold water. The treated and dried textiles have good softness and rewetting property.

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Abstract (Equivalent): EP 675941 B

Concentrated fabric softener dispersions containing quaternary ammonium compounds which are derived from triethanolamine and which contain one, two or three fatty acyloxyethyl groups, characterised in that the percentage content of compounds containing two fatty acyloxyethyl groups is greater than 50 mole% based on the total quantity of quaternary ammonium compounds.